Cathode ray tube device

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PROBLEM TO BE SOLVED: To provide a cathode-ray tube device with good convergence by correcting convergence coma as well as correcting green misconvergence at the corner of a screen. SOLUTION: For the z-axial magnetic field distribution curve of a secondary distortion coefficient H2 showing the curvature of the deflection-directional magnetic flux density change of the cross section (an x-y cross section) a coil at a right angle to its center axis (a z-axis) in a horizontally deflecting magnetic field generated by a deflecting yoke, a negative minimum value H2a exists near an inlet plane EN specified at the flange portion on the electron gun side of the horizontally deflecting coil and a positive maximum value H2b exists between the inlet plane EN and an outlet plane EX specified at the flange portion on the screen side of the horizontally deflecting coil, a coefficient rh (= (&verbar H2b&verbar -&verbar H2a&verbar)/&verbar H2b&verbar), regularized by the absolute value of the positive maximum value H2b, showing a deviation between the absolute value of the negative minimum value H2a and the absolute value of the positive maximum value H2b being -0.30 to 0.19.